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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,992	01/16/2001	Hugh Patrick Craig	1118-5-PCT/U	9190

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[REDACTED] EXAMINER

CIRIC, LJILJANA V

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

3743

DATE MAILED: 08/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/673,992	Applicant(s) Craig et al.		
	Examiner Ljiljana V. Cirovic	Art Unit 3743		
<i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i>				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.				
- Extensions of time may be available under the provisions of 37 CFR 1.138 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>Jan 16, 2001</u>				
2a) <input type="checkbox"/> This action is FINAL. 2b) <input checked="" type="checkbox"/> This action is non-final.				
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposition of Claims				
4) <input checked="" type="checkbox"/> Claim(s) <u>1-42</u> is/are pending in the application.				
4a) Of the above, claim(s) <u>none</u> is/are withdrawn from consideration.				
5) <input type="checkbox"/> Claim(s) _____ is/are allowed.				
6) <input checked="" type="checkbox"/> Claim(s) <u>1-9 and 36-38</u> is/are rejected.				
7) <input checked="" type="checkbox"/> Claim(s) <u>10-35 and 39-42</u> is/are objected to.				
8) <input type="checkbox"/> Claims _____ are subject to restriction and/or election requirement.				
Application Papers				
9) <input checked="" type="checkbox"/> The specification is objected to by the Examiner.				
10) <input type="checkbox"/> The drawing(s) filed on _____ is/are a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11) <input type="checkbox"/> The proposed drawing correction filed on _____ is: a) <input type="checkbox"/> approved b) <input type="checkbox"/> disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.				
12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner.				
Priority under 35 U.S.C. §§ 119 and 120				
13) <input checked="" type="checkbox"/> Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) <input checked="" type="checkbox"/> All b) <input type="checkbox"/> Some* c) <input type="checkbox"/> None of: 1. <input type="checkbox"/> Certified copies of the priority documents have been received. 2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. 3. <input checked="" type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
*See the attached detailed Office action for a list of the certified copies not received.				
14) <input type="checkbox"/> Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.				
15) <input type="checkbox"/> Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.				
Attachment(s)				
1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)				
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)				
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____				
4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____				
5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)				
6) <input type="checkbox"/> Other: _____				

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119
(a)-(d). The certified copy has been filed in parent Application No. ~~PCT~~/GB 99/01236, filed on
April 22, 1999.
- PCT*
JRC
7-31-02

Specification

2. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.
3. The following guidelines illustrate the preferred layout and content for patent applications. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

The following order or arrangement is preferred in framing the specification and, except for the reference to the drawings, each of the lettered items should appear in upper case, without underling or bold type, as section headings. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) Title of the Invention.
- (b) Cross-Reference to Related Applications.
- (c) Statement Regarding Federally Sponsored Research or Development.
- (d) Reference to a "Sequence Listing," a table, or a computer program listing appendix submitted on compact disc (see 37 CFR 1.52(e)(5)).
- (e) Background of the Invention.
 1. Field of the Invention.
 2. Description of the Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) Brief Summary of the Invention.
- (g) Brief Description of the Several Views of the Drawing(s).

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- (h) Detailed Description of the Invention.
- (I) Claim or Claims (commencing on a separate sheet).
- (j) Abstract of the Disclosure (commencing on a separate sheet).
- (k) Drawings.
- (l) Sequence Listing, if on paper (see 37 CFR 1.821-1.825).

Claim Objections

4. Claims 10 through 35 and 39 through 42 are objected to under 37 CFR 1.75© as being in improper form because a multiple dependent claim may not depend from another multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

5. Claims 1 through 42 are objected to because of the following informalities, for example: “inthe” [claim 1, line 20] should be replaced with “in a”; “20-25°C” [claim 1, line 20; claim 17, line 2; claim 36, line 33] should be replaced with “20°C through 25°C”; “30 to 70%” [claim 10, line 3; claim 20, line 3] should be replaced with “30% to 70%”; “70 to 30%” [claim 10, line 4; claim 20, line 4] should be replaced with “70% to 30%”; “50 to 60%” [claim 11, line 2; claim 21, line 3] should be replaced with “50% to 60%”; “50 to 40%” [claim 11, line 4] should be replaced with “50% to 40%”; “8 carbon atoms” [claim 18, line 3] should be replaced with “eight carbon atoms”; “80 to 97%” [claim 20, line 5] should be replaced with “80% to 97%”; “85 to 95%” [claim 21, line 5] should be replaced with “85% to 95%”; “15 to 5%” [claim 21, line 6] should be replaced with “15% to 5%”; “0.1 to 25µ” [claim 30, line 4; claim 31, line 4] should be replaced with “0.1µ to 25µ”; and, “1-15µ” [claim 30, line 4; claim 31, line 5] should be replaced with “1µ to 15µ” or “1µ through 15µ” as applicable. Appropriate correction is required.

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Claim Rejections - 35 U.S.C. 112

6. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 36 through 38 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Base claim 36 recites the composition as being "thermally curable when the material of the solder bump is molten", but this feature of the composition is not described in the originally filed specification.

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1 through 9 and 36 through 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are generally narrative and indefinite, failing to conform with current U.S. practice. Many limitations appearing in the claims are incomprehensible as written.

In particular, each of the claims recites numerous multiple alternative limitations which renders the scope of protection sought generally indefinite.

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For example, the term "very restricted" in each of base claims 1 and 36 is a relative term which renders the claims indefinite. The term "very restricted" is not defined by the claims, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Thus, as used to describe the reactivity of the cross linking agent, this term renders the chemical properties of the cross linking agent indefinite.

With regard to claim 37 as written, it is not clear to which two elements or materials the limitation "to bringing the two together" refers, thus rendering claim 37 indefinite.

The above is an indicative, but not necessarily an exhaustive, list of 35 U.S.C. 112, second paragraph, problems. Applicant is therefore advised to carefully review all of the claims for additional problems. Correction is required of all of the 35 U.S.C. 112, second paragraph problems, whether or not these were particularly pointed out above.

10. The non-application of art against claims 1 through 9 and 36 through 38 should not be construed as an indication that the claims contain allowable subject matter but rather that the claims could not be examined on the merits due to indefiniteness.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. *Gallagher et al., Zhou et al. (both references), Capote et al., Ohura et al., and Iyer et al.* each discloses thermally curable adhesive compositions.

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ljiljana (Lil) V. Cirim, whose telephone number is (703) 308-3925. While she works a flexible schedule that varies from day to day and week to week, Examiner Cirim may generally be reached at the Office during the work week between the hours of 10 a.m. and 6 p.m. ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett, can be reached on (703) 308-0101. The fax phone number is (703) 305-3463.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

LJ Cirim
LJILJANA CIRIC
PATENT EXAMINER

LVC:eb

June 28, 2002

LJC
7-31-02